Digital NOTAM System System Interface ICD

DNSWG 2nd Meeting
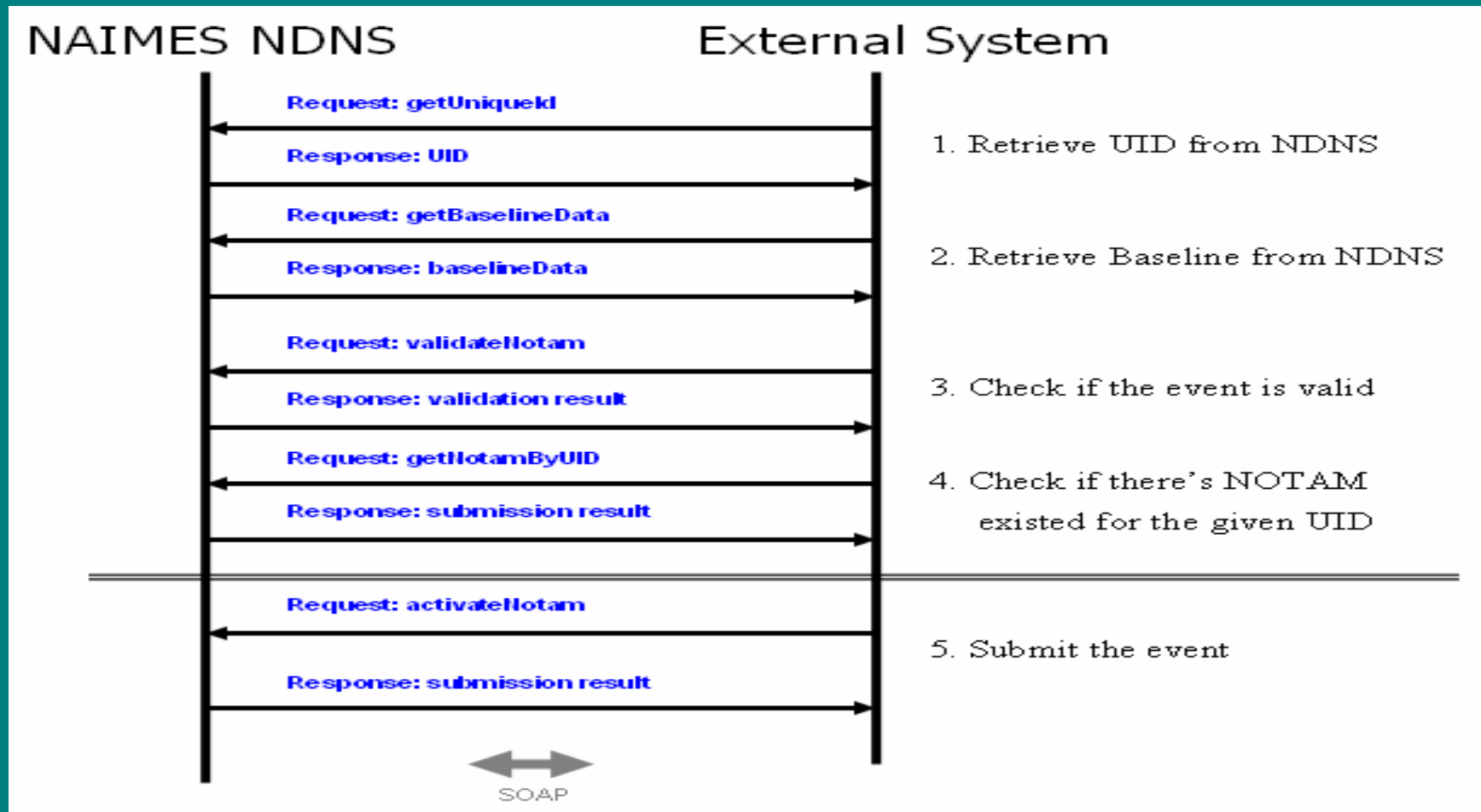
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Washington DC

List of Web Services

Service Name	Description
getUniqueId	Retrieve one unique identifier (UID) generated by NDNS. This identifier can be used in a single event submission.
getBaselineData	Retrieve current baseline data for given airport.
getNotamByUID	Retrieve the NTOAM for the given UID. This can be used to check if an event submission succeeded or not, in case no response was received from the NDNS.
validateNotam	This service validates the submitted event and also provides the transformation of the encoded event.
activateNotam	Submit a temporary event to the NDNS for approval and publication. Approved events will be made available as NOTAMs for customers to query.

Sequence of Event Submission

Get Unique ID Service

Service Name	getUniqueId	
Input Parameters		
	-userId	The authorized user ID
	-userPwd	The authorized user password
Response		
	-uniqueId	The unique identifier (UID) generated by NDNS
Exception		
	-InvalidUserError	If user not authorized, the Invalid User exception will be thrown.
	-SystemError	If NDNS fails to fulfill this service due to internal error, the System Error exception will be thrown.

Get Baseline Data Service

Service Name	getBaselineData	
Input Parameters		
	-userId	The authorized user ID
	-userPwd	The authorized user password
	-airportId	The airport designator
Response		
	-baselineData	The AIXM message containing the current baseline data of the given airport.
Exception		
	-InvalidUserError	If user not authorized, the Invalid User Error exception will be thrown.
	-SystemError	If NDNS fails to fulfill this service due to internal error, the System Error exception will be thrown.
	-BaselineNotFoundError	If no baseline data available, the Baseline Not Found Error exception will be thrown.

Get NOTAM By UID Service

Service Name	getNotamByUID	
Input Parameters		
	-userId	The authorized user ID
	-userPwd	The authorized user password
	-uniqueId	The UID in NOTAM
Response		
	-notamId	The NOTAM ID.
	-uniqueId	The UID in NOTAM.
	-locationId	The affected location ID of this NOTAM
	-accountability	The accountability of this NOTAM
	-txtTraditionalFormat	The NOTAM in traditional format
	-txtIcaoFormat	The NOTAM in ICAO format
	-txtPlainLanguageFormat	The NOTAM in plain language format
Exception		
	-InvalidUserError	If user not authorized, the Invalid User Error exception will be thrown.
	-SystemError	If NDNS fails to fulfill this service due to internal error, the System Error exception will be thrown.
	-NotamNotFoundError	If no NOTAM with this UID is available, the NOTAM Not Found Error exception will be thrown.

Validate NOTAM Service

Service Name	validateNotam	
Input Parameters		
	–userId	The authorized user ID
	–userPwd	The authorized user password
	–aixmEventMessage	The event encoded in AIXM message format. This actually should include the exact message that would be submitted for actual activation. So it will encode metadata etc., as well.
Response		
	–locationId	The affected location ID of this NOTAM
	–accountability	The accountability of this NOTAM
	–txtTraditionalFormat	The NOTAM in traditional format
	–txtIcaoFormat	The NOTAM in ICAO format
	–txtPlainLanguageFormat	The NOTAM in plain language format
Exception		
	–InvalidUserError	If user not authorized, the Invalid User Error exception will be thrown.
	–SystemError	If NDNS fails to fulfill this service due to internal error, the System Error exception will be thrown.
	–NotamValidationError	If validation of this NOTAM fails, the NOTAM Validation Error exception will be thrown.

Activate NOTAM Service

Service Name	activateNotam	
Input Parameters		
	-userId	The authorized user ID
	-userPwd	The authorized user password
	-aixmEventMessage	The event encoded in AIXM message format
Response		
	-notamId	The NOTAM ID.
	-uniqueId	The UID in NOTAM.
	-locationId	The affected location ID of this NOTAM
	-accountability	The accountability of this NOTAM
	-txtTraditionalFormat	The NOTAM in traditional format
	-txtIcaoFormat	The NOTAM in ICAO format
	-txtPlainLanguageFormat	The NOTAM in plain language format
Exception		
	-InvalidUserError	If user not authorized, the Invalid User Error exception will be thrown.
	-SystemError	If NDNS fails to fulfill this service due to internal error, the System Error exception will be thrown.
	-NotamValidationError	If validation of this NOTAM fails, the NOTAM Validation Error exception will be thrown.

Sample WSDL

```
<wsdl:portType name="DNotamService">
    <wsdl:operation name="getUniqueId">
    <wsdl:operation name="validateNotam">
    <wsdl:operation name="activateNotam">
        <wsdl:input message="intf:activateNotamRequest" name="activateNotamRequest"/>
        <wsdl:output message="intf:activateNotamResponse" name="activateNotamResponse"/>
        <wsdl:fault message="intf:SystemError" name="SystemError"/>
        <wsdl:fault message="intf:InvalidUserError" name="InvalidUserError"/>
        <wsdl:fault message="intf:NotamValidationError" name="NotamValidationError"/>
    </wsdl:operation>
    <wsdl:operation name="getNotamByUID">
    <wsdl:operation name="getBaselineData">
</wsdl:portType>
<wsdl:binding name="DNotamServiceSoapBinding" type="intf:DNotamService">
<wsdl:service name="DNotamServiceService">
    <wsdl:port binding="intf:DNotamServiceSoapBinding" name="DNotamService">
        <wsdlsoap:address location="http://localhost:9080/NDNSEJBHttpRouter/services/DNotamService"/>
    </wsdl:port>
</wsdl:service>
</wsdl:definitions>
```

Questions ?